

4" Spin Klin™ Galaxy

High flow automatic self-cleaning disc filtration systems, offering fine filtration solutions



flow rates

**200 - 2,000 m³/h
(880 - 8,800 gpm)**

filtration degrees

**20 - 400
micron**

inlet/outlet connection

**200 - 355 mm
(8" - 14")**

maximum
operating pressure

**10 bar
(145 psi)**

features:

- Innovative disc technology captures and retains large amounts of suspended solids
- Micron-precise depth filtration
- Short, automatic backwash cycle, with regulated water volume ensures water efficiency
- Long disc life eliminates frequent need for media replacement
- Compact and flexible design for small footprint installation
- Long-term operation with minimal maintenance
- Easy and simple operation

How the 4" Spin Klin™ Galaxy Filters Work

General

The 4" Spin Klin™ Galaxy series disc filters are modular, all polymeric and include a patented automatic self-cleaning backwash mechanism. The 4" Spin Klin™ Galaxy systems flow rate ranges from 200 - 2,000 m³/h (880 - 8,800 gpm) with filtration degrees ranging from 20 – 400 micron and inlet/outlet diameters from 200-355 mm (8" – 14").

The Filtration Process

The discs are stacked on the SpinKlin™ spine. During filtration, the discs are compressed by a pre-loaded spring and by the system differential pressure, forcing the water to pass through the grooved discs and the suspended solids are trapped on and within the stacked discs.

The Backwash Process

The backwash mode is triggered by system pressure differential or by an adjustable timer. The inlet valve shuts while the drain valve opens. During the backwash process, pressure is released and the tightening cylinder rises, releasing the compression on the discs. Tangential jets of filtered water are then forced through the nozzles positioned along the spine. The discs spin freely, loosening the trapped solids which are then flushed out. During the backwash cycle, each filter pod is backwashed sequentially, while the other pods continue to supply filtered water downstream.



Construction Materials

Filter housing and lid	PP (Polypropylene)
Disc elements	PP (Polypropylene) or PA (Polyamide)
Backwash valves	RPA (Reinforced Polyamide)
Manifolds	PP (Polypropylene)
Seals	NBR or EPDM (Viton optional)
Control tubing	PE or PA

External Source Backwash Option

Each filter is backwashed sequentially, while the other filters continue to supply filtered water downstream. In each filter, the inlet and outlet valves automatically close, and the drain and external source valves automatically open. Pressurized water from the external source header enters the filter through its outlet port and backwashes it.

Galaxy Models:

- 4" Spin Klin™ Galaxy Batteries
- 4" Spin Klin™ Galaxy Batteries with External Source

4" Spin Klin™ Galaxy filter pod



Disc material type availability according to filtration degree:

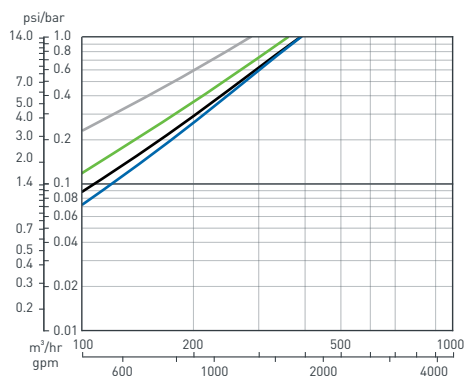
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4" Spin Klin™ Galaxy Batteries

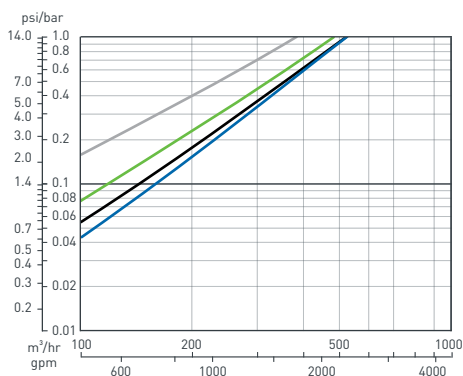


Head Loss Graphs (in clean water) — 400μ — 100μ — 55μ — 20μ

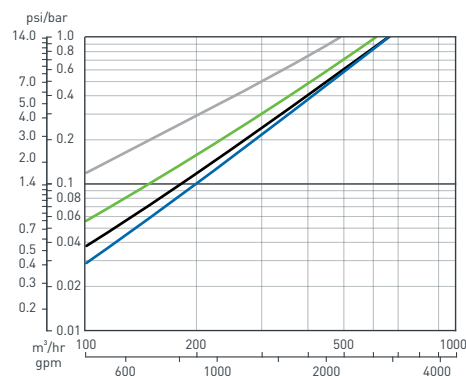
3 x 4" Spin Klin™ Galaxy Battery



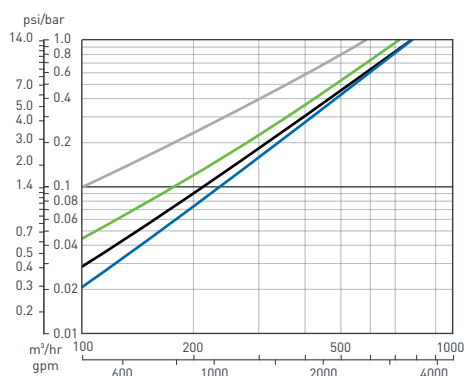
4 x 4" Spin Klin™ Galaxy Battery



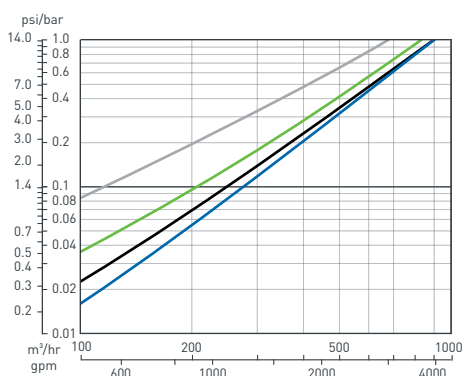
5 x 4" Spin Klin™ Galaxy Battery



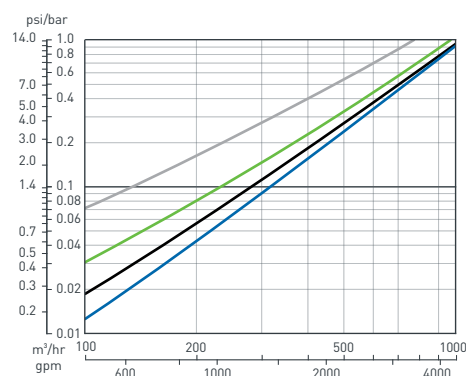
6 x 4" Spin Klin™ Galaxy Battery



7 x 4" Spin Klin™ Galaxy Battery



8 x 4" Spin Klin™ Galaxy Battery

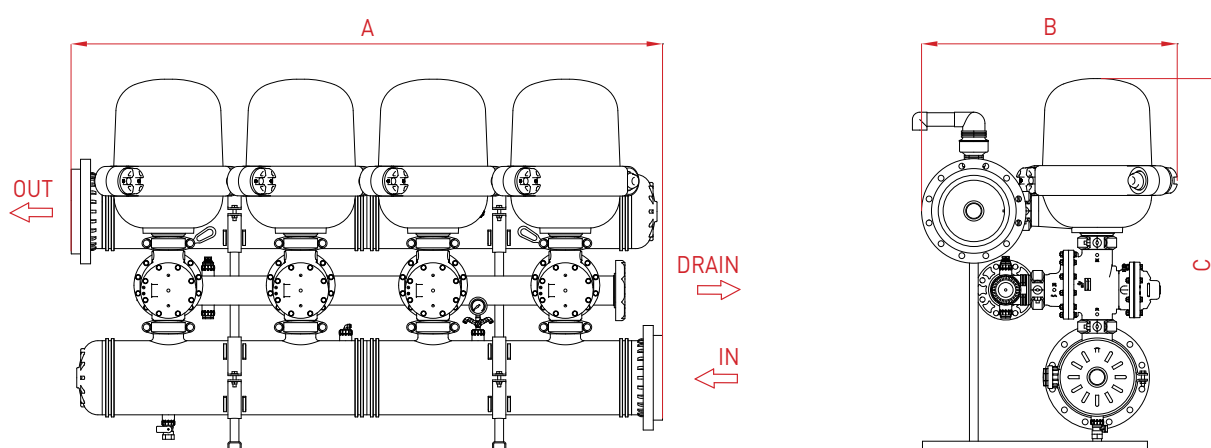


Filter Type	3 unit battery	4 unit battery	5 unit battery	6 unit battery	7 unit battery	8 unit battery
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General Data							
Max. operating pressure		10 bar (145 psi)					
Min. backwash pressure	400-100μ	2.8 bar (40 psi)					
	55-20μ	4-5 bar (58 - 72psi)					
Maximum recommended flow rate	100μ	225 m³/h (990 gpm)	300 m³/h (1,320 gpm)	375 m³/h (1,650 gpm)	450 m³/h (1,980 gpm)	525 m³/h (2,310 gpm)	600 m³/h (2,642 gpm)
	55μ	150 m³/h (660 gpm)	200 m³/h (880 gpm)	250 m³/h (1,101 gpm)	300 m³/h (1,321 gpm)	350 m³/h (1,541 gpm)	400 m³/h (1,761 gpm)
	20μ	75 m³/h (330 gpm)	100 m³/h (440 gpm)	125 m³/h (550 gpm)	150 m³/h (660 gpm)	175 m³/h (770 gpm)	225 m³/h (990 gpm)
Available filtration degrees		400, 200, 130, 100, 70, 55, 40, 20 micron					
Filtration volume		17,219 cm³ (1,051 in³)	22,959 cm³ (1,401 in³)	28,698 cm³ (1,751 in³)	34,438 cm³ (2,101 in³)	40,177 cm³ (2,451 in³)	45,918 cm³ (2,802 in³)
Inlet/outlet diameter		200 mm (8")	280 mm (10")	280 mm (10")	315 mm (12")	315 mm (12")	355 mm (14")
Max. working temperature		60°C (140°F)					
Dry weight standard		270 kg (594 lb)	350 kg (770 lb)	440 kg (968 lb)	530 kg (1,166 lb)	670 kg (1,447 lb)	770 kg (1,694 lb)

Backwash Data							
Drain connection		110 mm (4")					
Flushing time		20 seconds					
Min. flow for backwash		50 m³/h (220 gpm)					

Typical Installation Drawing



Dimensions		3 unit battery	4 unit battery	5 unit battery	6 unit battery	7 unit battery	8 unit battery
A	Length	1,664 mm (65 1/2")	2,234 mm (87 15/16")	2,734mm (107 5/8")	3,234 mm (127 5/16")	3,734 mm (147")	4,234 mm (166 11/16")
B	Width	940 - 980 mm (35 7/16" - 38 9/16")					
C	Height	1,370 mm (53 15/16")		1,408 mm (55 7/16")		1,466 mm (57 23/32")	

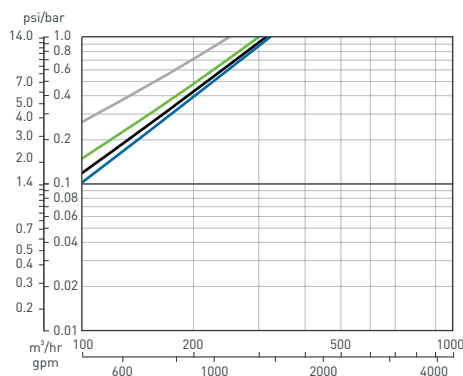
Note: All dimensions are for reference only. Certified drawings are available upon request.

4" Spin Klin™ Galaxy Batteries External Source

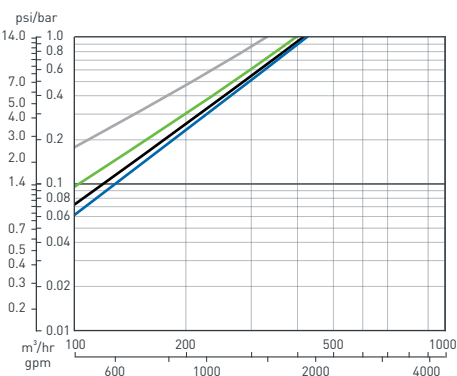


Head Loss Graphs (in clean water) — 400μ — 100μ — 55μ — 20μ

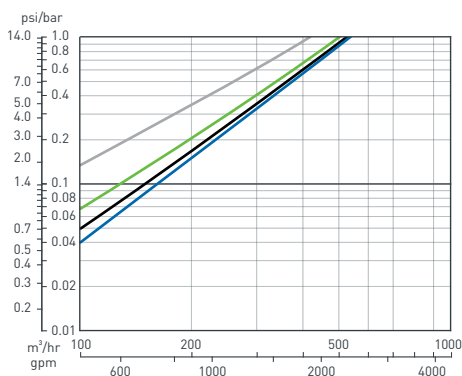
3 x 4" Spin Klin™ Galaxy Battery EX.S.



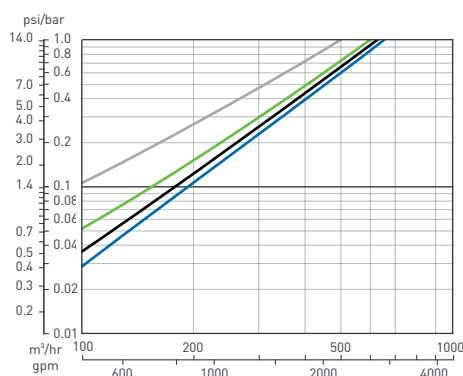
4 x 4" Spin Klin™ Galaxy Battery EX.S.



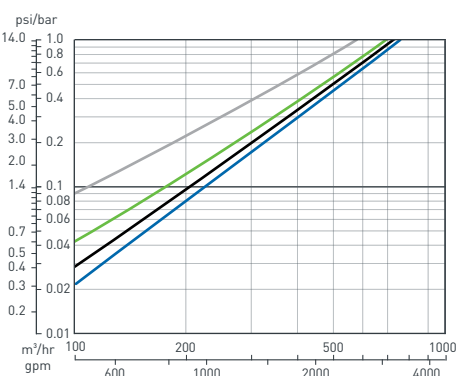
5 x 4" Spin Klin™ Galaxy Battery EX.S.



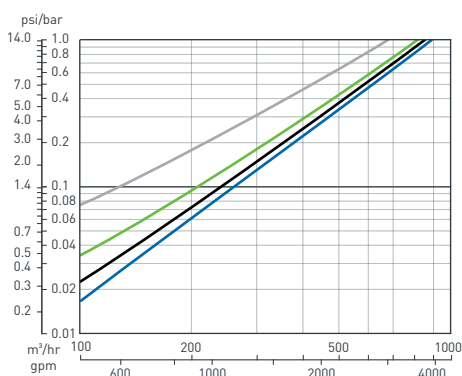
6 x 4" Spin Klin™ Galaxy Battery EX.S.



7 x 4" Spin Klin™ Galaxy Battery EX.S.



8 x 4" Spin Klin™ Galaxy Battery EX.S.

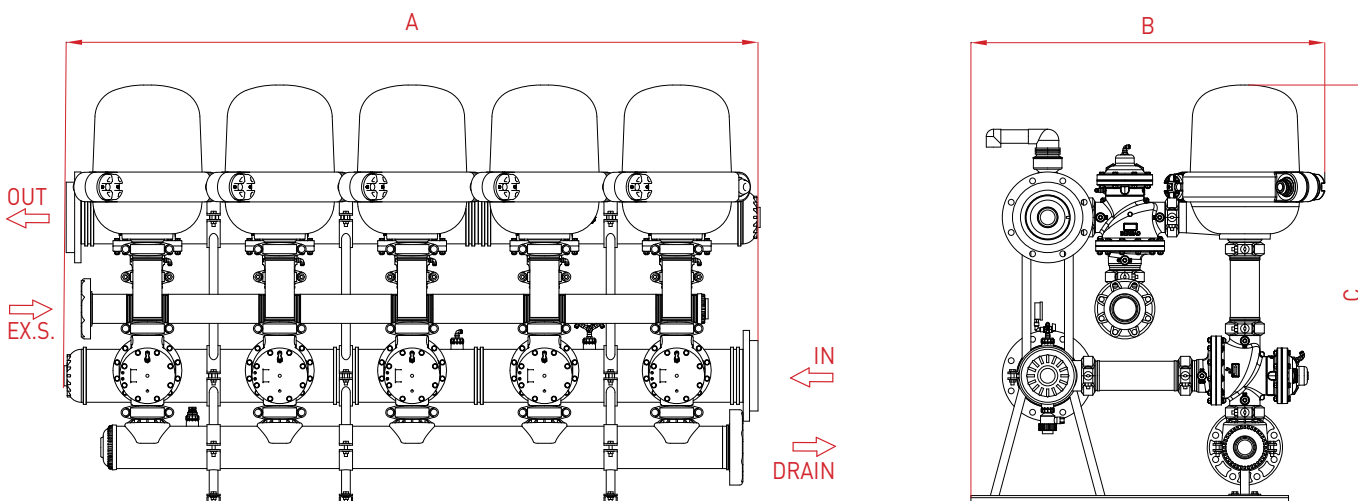


Filter Type	3 unit battery	4 unit battery	5 unit battery	6 unit battery	7 unit battery	8 unit battery
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Max. working temperature		60°C (140°F)					
Dry weight external source backwash		340 kg (748 lb)	440 kg (968 lb)	550 kg (1,210 lb)	650 kg (1,430 lb)	810 kg (1,782 lb)	920 kg (2,024 lb)

Backwash Data							
Drain connection		110 mm (4")					
Flushing time		20 seconds					
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B	Width	1,352 mm (53 7/32")					
C	Height	1,590 mm (62 19/32")					

Note: All dimensions are for reference only. Certified drawings are available upon request.

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